

Notice of Allowability

Application No.

10/828,853

Examiner

Gary K Graham

Applicant(s)

LIN, MING-HSIEN

Art Unit

1744

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 19 April 2004 and interview of 27 January 2005.
2. ☒ The allowed claim(s) is/are 1, 3 and 4.
3. ☒ The drawings filed on 19 April 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 01282005.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Gary K. Graham
Primary Examiner
Art Unit 1744

EXAMINER'S AMENDMENT

The Examiner suggested amendments to claim 1 to define over the closest prior art. The Examiner suggested that the limitations of claim 2, as well as defining that the transverse bars have a rectangular transverse cross-section, if put into claim 1 would define over the closest prior art and would be allowable.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Keith Kline on 27 January 2005.

The application has been amended as follows:

In the Specification

On page 3 of the specification, after line 5, insert ---

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a front view of the sweeping and wringing apparatus of the present invention.

Fig. 2 is a side view of the sweeping and wringing apparatus of the present invention.

Fig. 3 is a side view of one of the transverse bars of the present invention.

Fig. 4 is a cross-sectional view of one of the transverse bars of the present invention.

Fig. 5 is a front view of the squeezing head of the present invention.

Fig. 6 is a side view of the squeezing head of the present invention.

Fig. 7 is a side view of one of the squeezers of the present invention.

Fig. 8 is a cross-sectional view of one of the squeezers of the present invention.

Fig. 9 is a side view of the sweeping and wringing apparatus of the present invention in the second embodiment.

Fig. 10 is a side view of one of the squeezers of the present invention in the second embodiment.

Fig. 11 is a cross-sectional view of one of the squeezers of the present invention in the second embodiment.

Fig. 12 (prior art) is a front view of a conventional sweeping and wringing apparatus.

Fig. 13 (prior art) is a side view of a conventional sweeping and wringing apparatus.---

On page 6 of the specification, delete page 6 in its entirety.

In the Claims

In claim 1, line 13, after "distance" insert ---, each of said transverse bars has a plurality of engaging sections, each with a rectangular transverse cross-section, and a plurality of gliding sections, with each of said gliding sections placed between two engaging sections, and wherein each of said squeezing sections has a longitudinal canal with a rectangular transverse cross-section which is put over one of said engaging sections---,
line 15, change "excentrically" to ---eccentrically---.

Cancel claim 2.

In claim 3, line 2, after "oval" insert ---transverse--- and change "excentrically" to ---eccentrically---.

In claim 4, line 2, after "circular" insert ---transverse--- and change "excentrically" to ---eccentrically---.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: The claimed sweeping and wringing apparatus defines a unique wringer mop combination not taught by the prior art. In particular, one where squeezers or rollers are eccentrically mounted on transverse bars, wherein the squeezers each have a plurality of aligned squeezing sections and each have a canal with a rectangular transverse cross-section which is put over spaced engaging sections of the transverse bar that also have a rectangular transverse cross-section. While Libman may disclose a rectangular canal in the non-eccentrically mounted rollers (30) which receive the bars (32), there is no suggestion of the transverse bars also having a rectangular transverse cross section. Thus, there appears no reasonable rejection to be made using Hoffman, Lin and Libman that would meet claim 1 as amended.

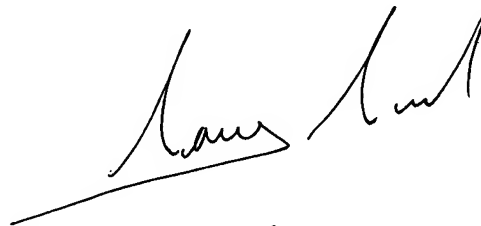
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary K Graham whose telephone number is 571-272-1274. The examiner can normally be reached on Tuesday to Friday (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Warden can be reached on 571-272-1281. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Gary K Graham
Primary Examiner
Art Unit 1744

GKG
28 January 2005